ARTICLE 34 AMENDMENT

Amendment under Article 34

To: Examiner of the Patent Office, Toshimitsu SATOMURA

1. Identification of the International Application PCT/JP03/09299

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4. Item to be Amended: Scope of Claim for Patent

5. Subject Matter of Amendment:

(1) In Scope of claim for Patent at pages 13 and 13/1, a phrase "for use in hologram recording" is added at the head portion of each of claims 1, 2 and 4, "an area ratio in accordance with a shape of Gaussian distribution, a peak point of said Gaussian distribution being in the center of said light modulation region" of claims 3 and 6 is amended by "areas such that the ratios of light powers incident on the respective light modulation elements fall within a predetermined range", and "said light modulation elements" at the head portion of claim 6 is amended by "said plurality of light modulation elements."

7. List of Attached Documents

(1) Page 13 and 13/1 of Scope of Claim for Patent

What is claimed is:

1. A spatial light modulator, in which a plurality of light modulation elements are arranged in one plane, wherein:

said plurality of light modulation elements are arranged such that there are at least two periods of periodic structure corresponding to an arrangement of the light modulation elements in an arbitrary direction in said plane.

2. A spatial light modulator, in which a plurality of light modulation elements are arranged in a light modulation region of a circular shape, wherein:

said plurality of light modulation elements are arranged such that there are at least two periods of periodic structure corresponding to an arrangement of the light modulation elements in an arbitrary direction in said light modulation region, and sizes of the light modulation elements increases along an outer peripheral direction of said light modulation region.

3. The spatial light modulator according to claim 2, wherein said plurality of light modulation elements have an area ratio in accordance with a shape of Gaussian distribution, a peak point of said Gaussian distribution being in the center of said light modulation region.

4. A spatial light modulator having a light modulation region of a circular shape, comprising:

light modulation elements arranged in areas which are obtained by radially and concentrically dividing said light modulation region.

5. The spatial light modulator according to claim 4, wherein said light modulation elements are arranged such that there are at least two periods of periodic structure corresponding to an arrangement of the light modulation elements in a radial direction of said light modulation region.

6. The spatial light modulator according to claim 4, wherein said light modulation elements have an area ratio in accordance with a shape of Gaussian distribution, a peak point of said Gaussian distribution being in the center of said light modulation region.